



#17th
Amend B
10.29.02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : **Confirmation No. 3378**
Mitsuaki OSHIMA et al. : **Docket No. 2000_1420**
Serial No. 09/686,467 : **Group Art Unit 2634**
Filed October 12, 2000 : **Examiner A. Le**
COMMUNICATION SYSTEM :

RECEIVED

OCT 8 2002

Technology Center 2500

AMENDMENT

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

Assistant Commissioner for Patents,
Washington, D.C.

Sir:

In response to the Office Action of April 24, 2002, the period for response to which having been extended by three months to October 24, 2002, please amend the above-identified U.S. patent application as follows:

IN THE CLAIMS:

Please cancel claims 13-21 without prejudice or disclaimer to the subject matter therein.

Please add claims 22-29 as follows:

22. A signal transmission apparatus comprising:
- a modulator operable to modulate a carrier wave with an input signal to produce a modulated signal, and
 - a transmitter operable to transmit the modulated signal,
- said input signal containing a first data stream including g values of bit patterns and a second data stream, where g is an integer number, and
- the modulated signal having symbols, each of which is representing one of m signal points in a vector space diagram, where m is an integer number and the vector space diagram includes an I axis and a Q axis extending in directions perpendicular to each other,

B1
CWT